

DRILL HOLES

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BORDER REV. DATE: JUNE 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the repair of an existing Traffic Control Signal at the intersection of MD 650 (New Hampshire Ave) and Northampton Avenue in Montgomery County. The existing mast arm pole in the median of the north leg of MD 650 (New Hampshire Ave) was knocked down in a traffic accident. A new mast arm pole shall be installed. MD 650 (New Hampshire Ave) is assumed to run on north-south direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA four-phase, semi-actuated mode, with the MD 650 (New Hampshire Ave) approaches running concurrently. The Exclusive/Permissive left turn phase for the northbound approach of MD 650 (New Hampshire Ave) shall remain in operation. The pedestrian phase with pushbutton actuation shall across the south leg of MD 650 (New Hampshire Ave) shall continue to be provided. The pedestrian phase across Northampton Avenue shall remain on recall. The Northampton Avenue approach shall continue to run in its own phase..
- The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by Montgomery County Forces. Contact Kamal Hamud at (240) 777-8761 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

The contacts for Montgomery County & SHA are as follows:

Vacant
Assistant District Engineer - Traffic
Phone: (301) 513-7358

Mr. Vernon Stinnett
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

Mr. Augie Rebish
District Engineer - Utility
Phone: (301) 513-7350

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Keith Lord
Signal Shop (Mont Co.)
301-674-8965

Mr. Sonny Bailey
Manager, Sign Shop Operations
410-787-7670

Mr. Mike Kinney
Mont. County Traffic
240-777-8760

Mr. Kamal Hamud
Mont. County TMC Center
240-777-8761

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY THE SHA

ITEM NO.	DESCRIPTION	QUANTITY
	Sheet aluminum signs to consist of: (mast arm) D-3(1) "Northampton Dr " sign. (variable x 16") (dual faced).	1 EA

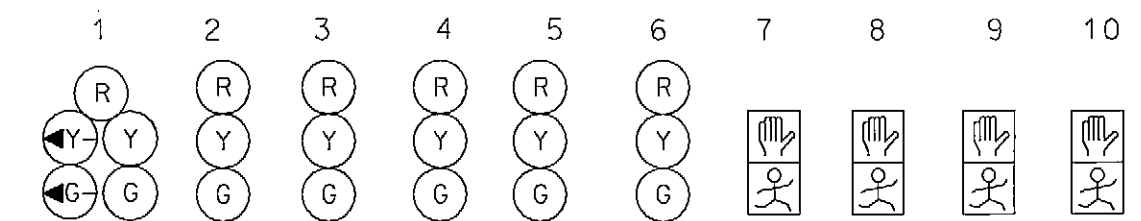
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
	Maintenance of traffic per assignment.	1 EA
	Test Pit Excavation	1 C.Y.
	12" LED signal head section.	8 EA
	Remove and dispose of existing material & equipment per assignment.	1 EA
	Schedule 80 rigid PVC conduit up to 4" - trenched.	20 L.F.
	No. 6 AWG stranded bare copper ground wire.	215 L.F.
	Cut, clean, galvanize and cap traffic signal structure.	1 EA
	Electrical cable - 5 conductor (No. 14 AWG).	35 L.F.
	Electrical cable - 7 conductor (No. 14 AWG).	260 L.F.
	Install overhead or ground mounted sign.	9.5 S.F.
	Mast arm pole and 38' (cut to 34') mast arm any "T" dimension	1 EA

C. EQUIPMENT TO BE REMOVED

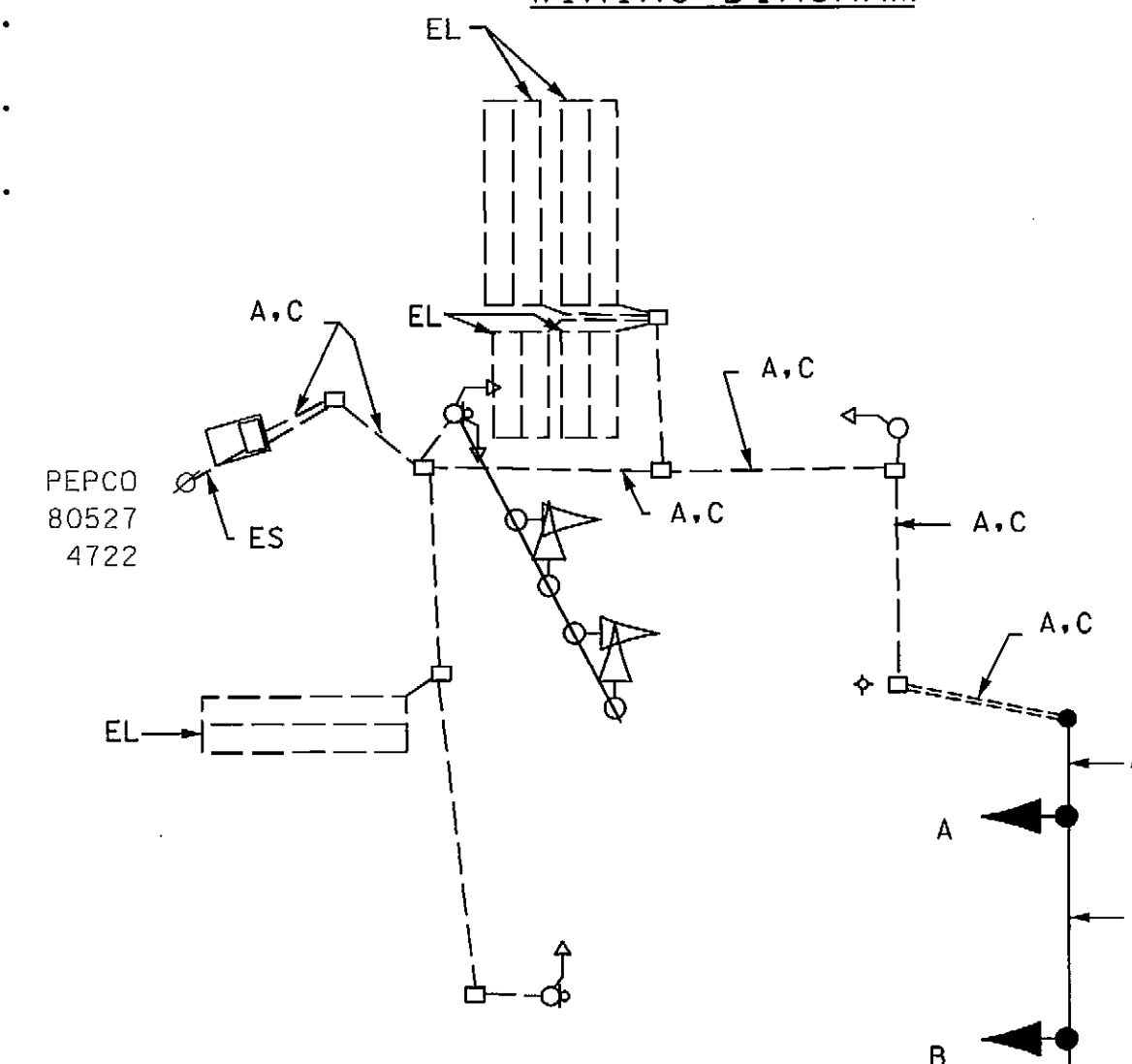
All removed signal materials are to become property of the contractor.

PHASE CHART



PHASE 1 & 6	←G-/G	G	R	R	R	R	DW	DW	DW	DW	↑
1 & 6 CHANGE	←Y-/G	G	R	R	R	R	DW	DW	DW	DW	↑
PHASE 2 & 6	G	G	G	G	R	R	WK	WK	DW	DW	↑
PED CLEAR	G	G	G	G	R	R	FL/DW	FL/DW	DW	DW	↑
2 & 6 CHANGE	Y	Y	Y	Y	R	R	DW	DW	DW	DW	↑
PHASE 4	R	R	R	R	G	G	DW	DW	DW	DW	↑
4 CHANGE	R	R	R	R	Y	Y	DW	DW	DW	DW	↑
PHASE 4 ALT	R	R	R	R	G	G	DW	DW	WK	WK	↑
PED CLEAR	R	R	R	R	G	G	DW	DW	FL/DW	FL/DW	↑
4 ALT CHANGE	R	R	R	R	Y	Y	DW	DW	DW	DW	↑
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK	↑

WIRING DIAGRAM



WIRING KEY

- A - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING
- ES - EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY PEPCO
- ⊕ - EXISTING GROUND ROD



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

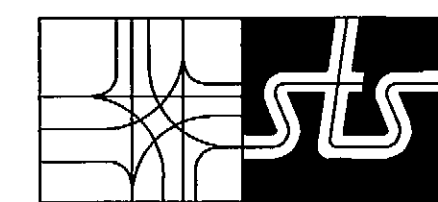
MD 650 (NEW HAMPSHIRE AVE)
AND NORTHAMPTON DRIVE

GENERAL INFORMATION SHEET

SCALE NONE DATE 1/27/2010 CONTRACT NO.

DESIGNED BY R.R.Z. COUNTY MONTGOMERY
DRAWN BY R.C. LOGMILE 15065000.00
CHECKED BY TMS NO.
F.A.P. NO. TOD NO.

TS NO. 2220A DRAWING NO. 2 OF 2 SHEET NO. OF



STREET TRAFFIC STUDIES, LTD.
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